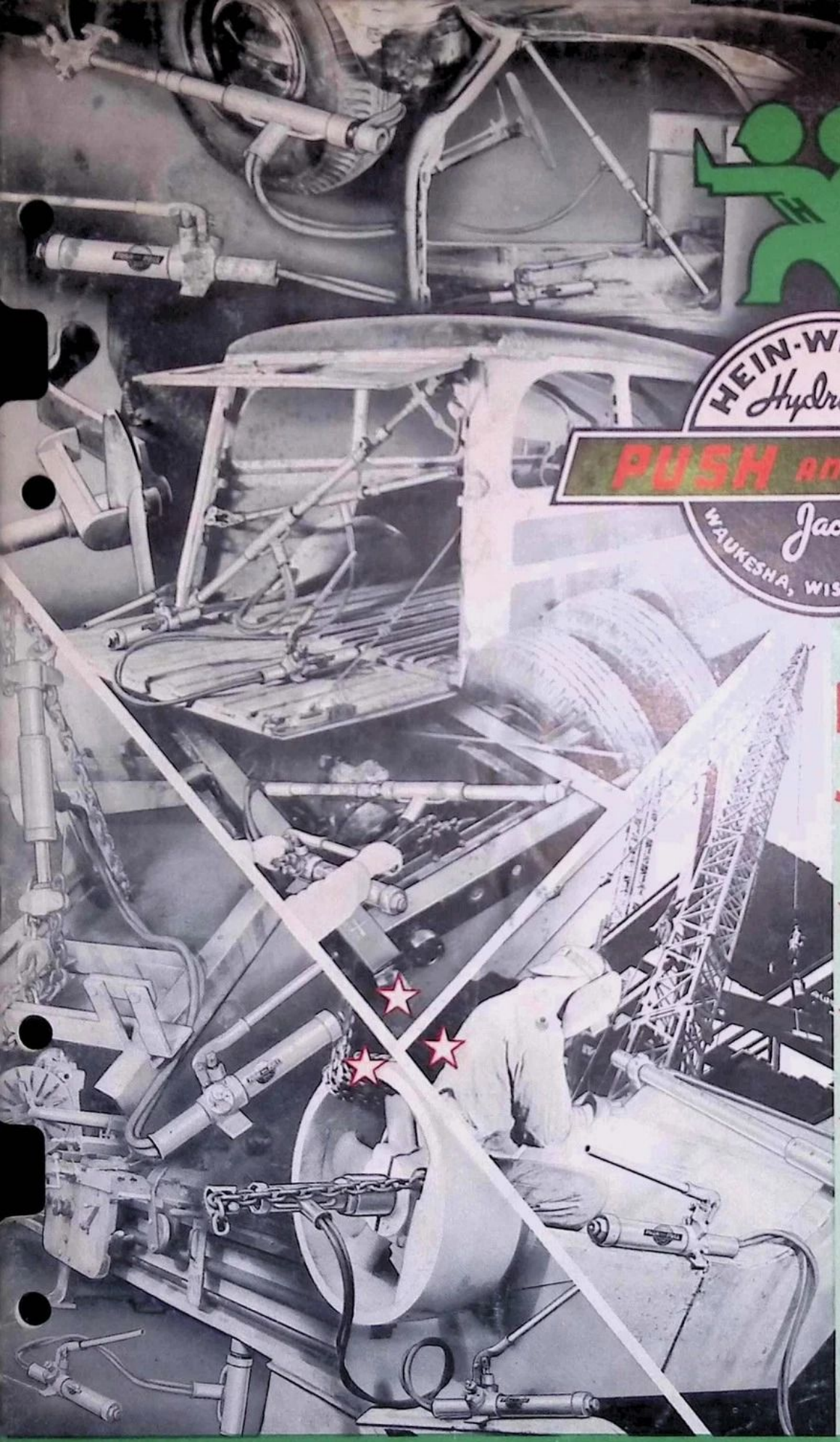

HYDRAULIC JACKS

for

- ☆ CAR and TRUCK BODY, FRAME REPAIR
- ☆ BUILDING CONSTRUCTION
- ☆ INDUSTRY

CATALOG No. 10

HEIN-WERNER CORPORATION
Waukesha, Wisconsin, U. S. A.

EIN - WERNER
PUSH and PULL
YDRAULIC JACKS

AN ADDED PROFIT WITH A SINGLE JACK

u need just one Jack—one *ram*—for direct, split-second *push* and *pull* action.

werful but light in weight, every model of the HEIN-WERNER *PUSH and PULL* line is easily carried d quickly set up for its work. Easy, safe accessibility for the operator in the most cramped, difficult dangerous spots is provided by remote control. And a quick, simple turn of a valve to the right ves you instant *push;* to the left—instant *pull.*

body, fender and frame repair for cars, trailers and trucks, in heavy machinery repairs, and in building id ship construction, the HEIN-WERNER *PUSH and PULL* Jack seldom finds an idle hour.

e HEIN-WERNER *PUSH and PULL* Jack is economically priced—and does twice the work in far less ne. *PUSH and PULL* nets you an added profit.

EIN-WERNER *PUSH and PULL* Hydraulic Jacks have a back-ground of high integrity in manufacturing id years of experience in hydraulic engineering. The name HEIN-WERNER has long been a mark of adership in the hydraulic jack industry.

PUSH and PULL Added Profit Applications

r and Truck Body Repair
gn hoods
-align bodies and body panels
aighten damaged
window-frames
turret tops
door posts
rear deck openings
headers
uggage compartments

ame, Axle and Engine Work
) or 20 Ton Jacks generally recommended)
mpve king pins
nove rusty or close-fitted assemblies
gn assemblies when installing accessories
gn trailer hitches
aighten axles
nove or replace bushings
align frames and front horns

rd Repairs
ert or remove shackle studs
nove hubs
ead springs

Bus Repairs
Replace axle tubes
Axle and frame straightening
Road service for repair truck

Tow Trucks, Fire Trucks and Police Vehicles
Rescue work by
Forcing jammed doors
Freeing steering posts
Raising overturned vehicles
Raising damaged tops
Emergency roadside repairs

Industrial and Construction Trades
Move bins or machinery
Separate large dies
Lift cranes, other similar equipment on or off tracks
Bulldozer and snowplow blade and bracket repair
Test metal strength and welds
Shoring work
Straighten foundry flasks
Straighten conveyor buckets
Pull off drive pulleys, heavy gears or wheels

Implement and Tractor Repair
Pull off wheels, gears or pulleys
Re-align sheet metal structures or frame members

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GUARANTEE

All HEIN-WERNER *PUSH and PULL* Jacks and attachments, except hose and chain, are guaranteed against defective material or workmanship. Jacks claimed defective should be sent prepaid to nearest HEIN-WERNER Official Service Station for inspection and adjustment. Attachments should be returned prepaid to factory and if found defective will be replaced no charge.

3 SIZES TO MEET EVERY REQUIREMENT

HEIN-WERNER *PUSH and PULL* Hydraulic Jacks are manufactured in *4 ton capacity* for car and truck body and fender repair; *10 ton capacity* for straightening and alignment of frames and axles and a variety of industrial applications; *20 ton capacity* for the building and contracting trades, heavy machinery repair, heavy duty frame and axle work, and general industrial uses.

These classifications indicate only broadly the fields in which HEIN-WERNER *PUSH and PULL* Jacks find the most numerous jobs to do. Almost daily new and profitable applications are discovered and one of the chief purposes of this catalog is to inspire the thought: "Say! That *PUSH and PULL* Jack would fit right into my work."

The J-4 "Busybody"— *PUSH and PULL* Jack

4 tons of concentrated power for direct *push;* 2 tons for direct *pull.* Closed height 10 inches. Ram travel 5 inches. Ram weight 5¾ lbs. Net weight 18 lbs.

The J-10 *PUSH and PULL* Jack

10 tons of pressure for direct *push;* 6¼ tons for direct *pull.* Closed height 12½ inches. Ram travel 6 inches. Ram weight 13 lbs. Net weight 34 lbs.

The J-20 *PUSH and PULL* Jack

20 tons capacity for direct *push;* 13½ tons for direct *pull.* Closed height 12½ inches. Ram travel 5 inches. Ram weight 20 lbs. Net weight 41 lbs.

All HEIN-WERNER *PUSH and PULL* Hydraulic Jacks have these features:

1. *PUSH and PULL* with only one ram saves time and multiplies types of work that can be done.
2. Easier to set up; requires fewer attachments.
3. Protected by trouble-free safety valves so cannot be overloaded.
4. Balanced grip on ram makes handling and positioning quick, accurate and easy.
5. Pump and ram operate in any position. Cannot become airbound.
6. Threaded ends of ram are replaceable to reduce service cost.
7. *PUSH and PULL* controlled by turning simple release valve to right or left.
8. Hose guards at pump and ram protect and add years to life of hose.
9. Ram under full operator control at any point in *push* or *pull* action.
10. Extra quality high pressure wire braid hose provides 2 to 1 safety factor in 4 Ton Jack; nearly 3 to 1 in 10 and 20 ton models.
11. All models use standard industry sizes of pipe thread —4 ton—¾", 10 ton—1¼", 20 ton—2".
12. Every Jack thoroughly tested.

SEPARATE RAMS, PUMPS AND HOSE

Complete Ram or Pump Units, or Hose, can be purchased separately for service or special use.

PUMP UNITS	RAM UNITS
UP-4 Pump Unit for J-4 Jack	UR-4 Ram Unit for J-4 Jack
UP-10 Pump Unit for J-10 Jack	UR-10 Ram Unit for J-10 Jack
UP-20 Pump Unit for J-20 Jack	UR-20 Ram Unit for J-20 Jack
U-4120 6' HOSE for 4 Ton	U-10120 6' Hose for 10 and 20 Ton.

For positive, trouble-free performance, use only HEIN-WERNER Hydraulic Jack Oil. Available in ½ pint, quart and gallon cans.

the HEIN-WERNER 10 TON *PUSH and PULL* HYDRAULIC JACK

Model J-10

Power a-plenty to straighten and align truck, trailer and auto frames and axles. The HEIN-WERNER 10 Ton *PUSH and PULL* Jack has a wide range of industrial applications, and is used with the BP-10 Bench Press described on Page 17. And—as in all HEIN-WERNER *PUSH and PULL* Jacks, the 10 Ton (J-10) unit gives you *Push-Pull* action in a single Ram. For other features that make HEIN-WERNER the most flexible and profitable jack in the field, turn back for a quick glance at Page 3.

SPECIFICATIONS J-10 JACK							
Push	Pull	Closed Height	Ram Travel	Ram Weight	Net Weight	Attachment Thread Size	Hose Length
10 Tons	6¼ Tons	12½"	6"	13 lbs.	34 lbs.	1¼" pipe	6 ft.

The C-10 JacKit

Your best buy is the complete package-deal offered in the C-10 JacKit. It gives you everything you need in the 10 Ton application range: the J-10 Jack, and A-10 assortment of 33 attachments and assemblies, all arranged for quick, practical convenience in a B-10 Open Shelf Stand.

The B-10 Open Shelf Stand

is made of heavy, white enameled sheet steel. It is 33 inches high, 18 inches wide and 30 inches long; rolls easily on large wheels and casters. Order the C-10 JacKit. It has everything—including a favorable package price.

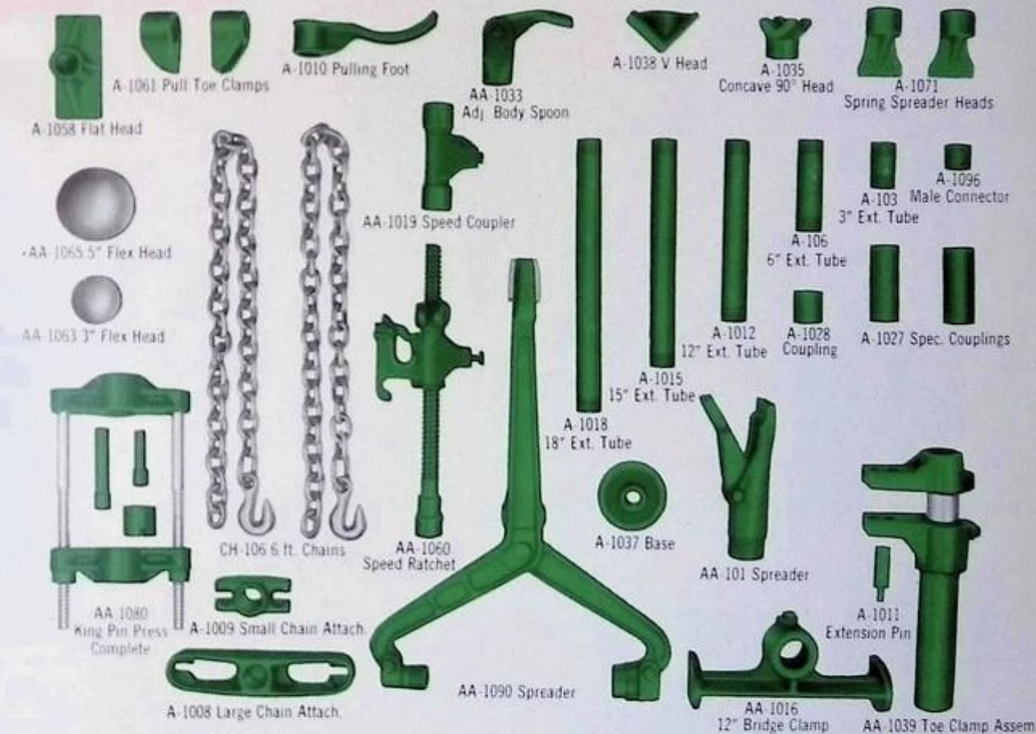
Easy to figure:

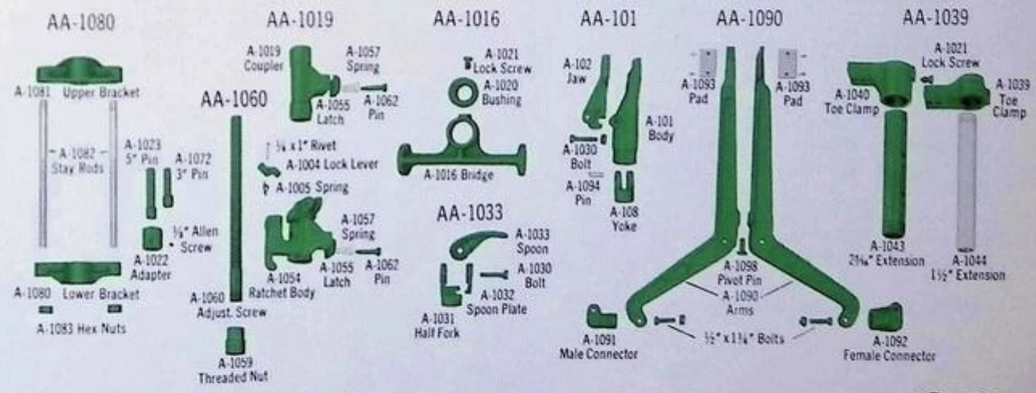
J-10 Jack
plus A-10 Attachments
plus B-10 Stand
equal C-10 JacKit

All attachments and assemblies of the A-10 Set are designed for multiple use in body, frame, axle and industrial applications. There's a tool for almost every job—no matter how rugged the work may be. Castings are of pressure tested malleable iron, extension tubes are of extra strong steel pipe and chains are of high test, heat-treated alloy steel; all providing extra quality throughout.

They come to you securely packed in a wire bound container with the arrangement shown below.

HEIN-WERNER 10 TON ATTACHMENTS A-10

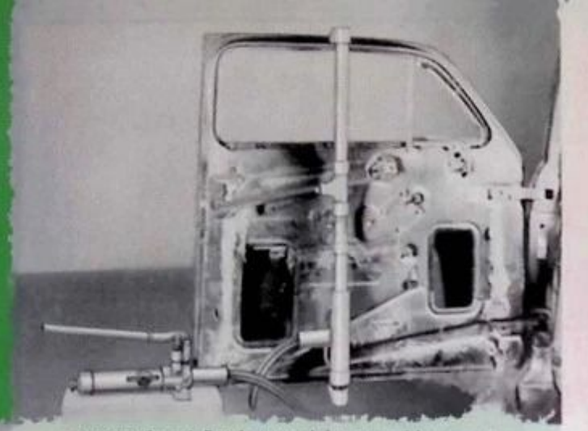




SERVICE PARTS IDENTIFICATION FOR 10 TON ATTACHMENT ASSEMBLIES.

the HEIN-WERNER 10 TON PUSH and PULL HYDRAULIC JACK . . in the field

Pushing with 10 Ton Jack while *pulling* with 4 Ton Jack to straighten top and rear pillar post of all steel body station wagon.

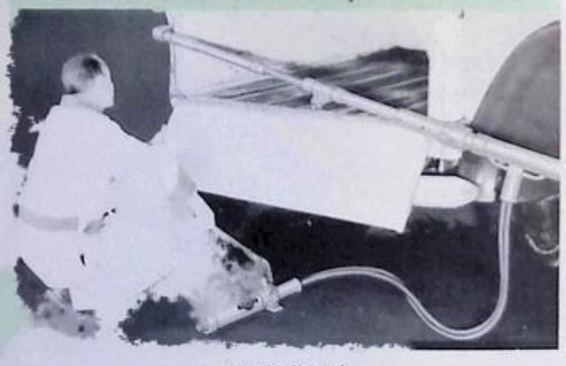


AA-1060 Speed Ratchet used in assembly to adjust starting length to exact size of door when pulling window frame into shape with two A-1061 Toe Clamps.

THE AA-1060 SPEED RATCHET

In the alignment of automotive bodies, posts, fenders, turret decks; in straightening doors and similar parts, the AA-1060 Speed Ratchet is of prime importance for it eliminates the need of frequently breaking down a set-up to add lengths of pipe. It provides adjustment of the exact length required up to 18 inches and takes advantage of the full hydraulic travel of the ram. The Ratchet often actually cuts operational time in half; also available in 4 Ton as part AA-460.

Pulling body of pick-up truck into alignment. J-10 10 Ton Jack with AA-1019 Adjustable Speed Coupler and A-1061 and A-1040 Toe Clamps.

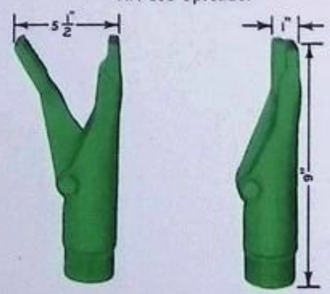


THE AA-101 SPREADER

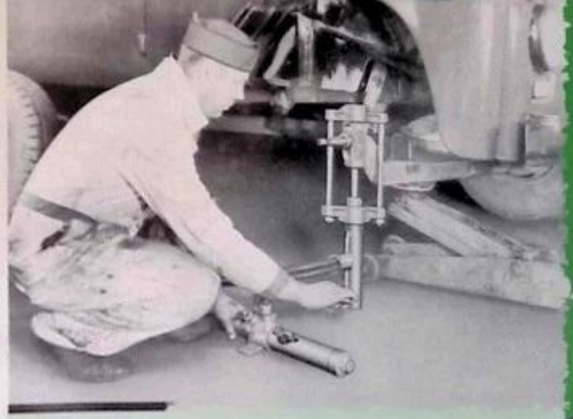
For work in small, confined areas and for reaching into narrow, deep openings such as the repair of damaged trunk compartments, cowls, front horn box channels, bringing out dents in deep fenders and panels, the AA-101 Spreader is ideal. It is of great value in producing any short, stiff bend. It works smoothly without shearing or tearing and gets into places completely inaccessible to hammers or other tools.

Pushing out Tail pan section with AA-101 Spreader, operating in close quarters.

AA-101 Spreader



Open Closed



King Pin Press permits ready access and easy removal of king pin without detaching axle from vehicle.

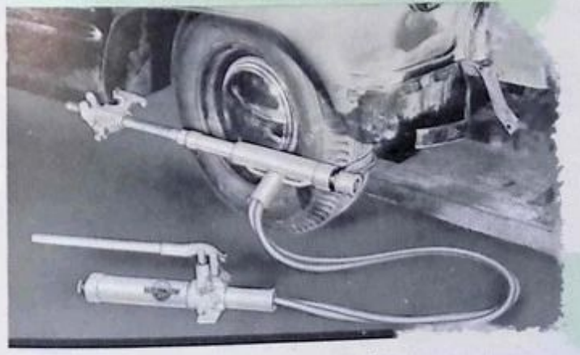
The AA-1080 King Pin Press

The HEIN-WERNER King Pin Press offers the most practical and the fastest way to remove king pins, without disassembly of axle.

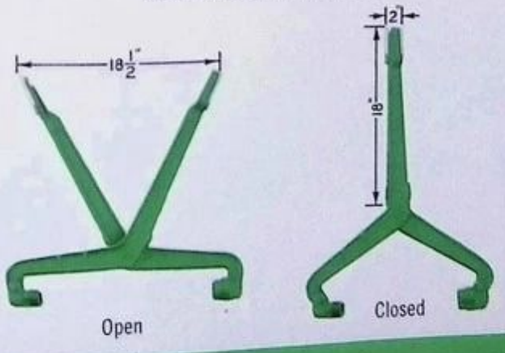
Threads to Jack body to make convenient light weight portable press for general duty in shop or factory. Design permits operation in small space.

King Pin Press also available in 20 ton capacity as part No. AA-2080.

AA-1060 Speed Ratchet adjusted to permit using full travel of ram while pulling fender skirt forward and anchored to wheel with specially designed tire clamp.

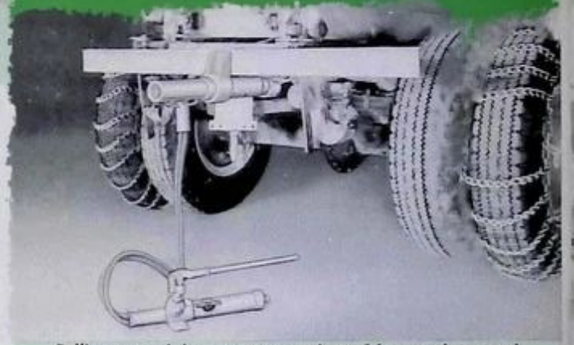


AA-1090 Long Arm Spreader



Open Closed

MORE USES FOR THE HEIN-WERNER 10-TON PUSH and PULL HYDRAULIC JACK

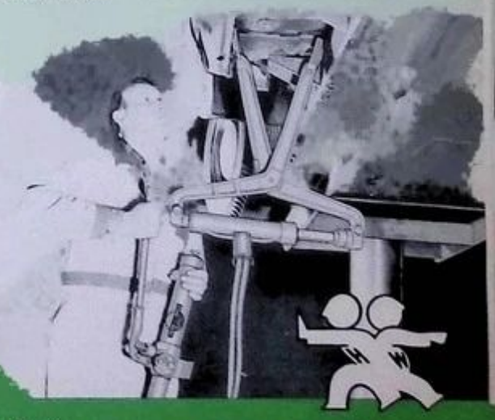


Pulling to straighten cross member of heavy duty truck frame by using J-10 10 Ton Jack with AA-1039 Toe Clamp Assembly.

The AA-1090 Long Arm Fender Spreader

The deep construction of decks and fenders, and narrow spaces between frames and bodies in modern cars, brought about the development of the AA-1090 Spreader. The many narrow, deep recesses encountered in auto body work makes a tool of this character absolutely essential. No accidental shearing of metal, no time-wasting hammering; the AA-1090 Spreader does its work swiftly and smoothly in the tightest spots.

Pushing with AA-1090 Spreader on J-10 10 Ton Jack to bend out front lower section of rocker panel to line up with fender



HEIN-WERNER
10 TON
INDUSTRIAL JacKit
C-12

This carefully selected A-12 group of 18 attachments and assemblies shown at left will do most of the industrial applications within a 10-ton power capacity. All attachments designed for rugged service. Heads are pressure tested malleable iron castings, extension tubes are of extra strong pipe, and chains are of high test, heat treated alloy steel. Order additional attachments as you need them. Comes complete with J-10 *PUSH* and *PULL* Jack, packed in portable B-11 Chest.

J-10 *PUSH* and *PULL* Jack

A-12 Attachments

B-11 Storage Chest—The C-12 10 Ton Industrial JacKit comes to you in a strong wooden B-11 Storage Chest, with hinged cover and hasp for locking. It's conveniently partitioned to divide attachments and J-10 Jack, and is easily carried. Measures 27½" x 16" x 8".

Easy to figure:
J-10 Jack
plus A-12 Attachments
plus B-11 Chest
equal C-12 JacKit

The HEIN-WERNER Bench Press BP-10

This 4 post press greatly increases the range of work for the HEIN-WERNER 10 Ton *PUSH and PULL* Jack. Furnished complete with adapter, sliding base plate, two V blocks for straightening shafts, body parts, grilles and similar members, and a Hole Plate for use in pushing off or inserting bushings and gears.

The Press is easily mounted to any shop bench. Many body shops and many industrial plants find it practical to have a permanent bench set-up complete with the J-10 HEIN-WERNER *PUSH and PULL* Jack and keep a second *PUSH and PULL* Jack available for other work. Industrially, the HEIN-WERNER Bench Press is often used for the smaller blanking operations where the quantity is too small to justify automatic line production, and in pressure testing of materials.

Jack is mounted on threaded sleeve to adjust height. Sleeve carriage and base attachments slide to permit efficient use of power at any point within length of press.

BP-10
Bench Press Complete - 10 Ton

HEIN-WERNER
20 TON
INDUSTRIAL JacKit
C-21

The C-21 JacKit is the HEIN-WERNER package for industry. Easily portable—designed for heavy service. In it you'll find the J-20 Jack and the A-21 selection of 15 attachments which have been carefully chosen to apply to the vast majority of industrial uses. Especially suitable for maintenance of highway and construction machinery. See features of J-20 Jack described on page 14.

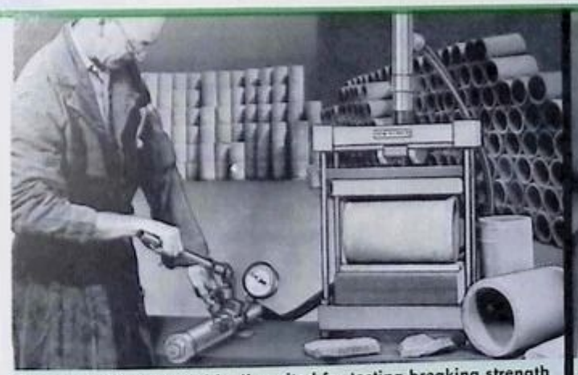
Complete Kit furnished in portable B-11 chest, with room for additional attachments when needed.

J-20 *PUSH* and *PULL* Jack

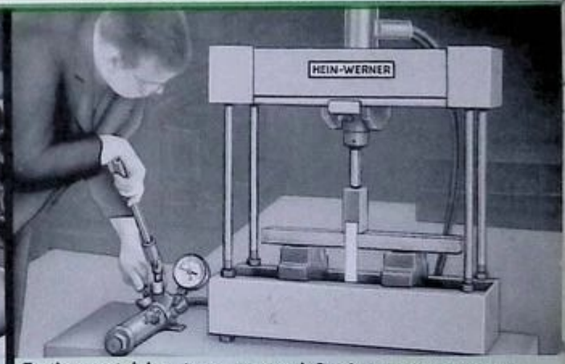
A-21 Attachments

B-11 Storage Chest—The C-21 20 Ton Industrial JacKit comes to you in a strong wooden B-11 Storage Chest, with hinged cover and hasp for locking. It's conveniently partitioned to divide parts and J-20 Jack, and is easily carried. Measures 27½" x 16" x 8".

Easy to figure:
J-20 Jack
plus A-21 Attachments
plus B-11 Chest
equal C-21 JacKit



Gauge equipped Jack ideally suited for testing breaking strength of tile, cement block and culvert sections to comply with state code.



Testing metal bar to measure deflection under pressure. Red indicating needle on gauge remains at maximum load reached, permitting operator to watch material under test.

Jacks with Pressure Gauge Attached 10 and 20 Ton Models

The 10 and 20 Ton *PUSH and PULL* Jacks can be purchased with Pressure Gauge installed at the factory as Models J-10-G and J-20-G, respectively. Factory installation is necessary because of special drilling.

The 3½" diameter gauge is a highly accurate instrument calibrated for pressure in tons with separate readings for Push and Pull. A red indicating needle shows the highest pressure on either *push* or *pull* and the hand remains at that point until set back. The black needle shows the pressure prevailing during a *pushing* or *pulling* operation.

Order by Jack Model Number as follows:
J-10-G—10 Ton *PUSH and PULL* Jack with Gauge.
J-20-G—20 Ton *PUSH and PULL* Jack with Gauge.

50 M 4-52

LITHO IN U. S. A.